Name of Work-''Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

EMB

"FIRST AND FINAL BILL''

Name of Work-''Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

PRE-MEASUREMENT SHEETS

"FIRST AND FINAL BILL''

Name of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

Detailed Measurements

Date: 14-03-2024

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. Volume 1, Loading & Unloading Rs-118						
	Debris	6	3.00	2.00	0.30	10.80	
					Present Qty	**10.80**	**Cum**

Contractor

Asst. Engineer

Exec. Engineer

ame of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

Detailed Measurements Date:- 06-04-2024

leasurement Recorded On:

tem No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
2	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density						
	Ward No-04						
	Concrete For Road Cutting						
	LBS Nagara Road						
	From Allasandra Main Rd						
	Ch:0.00m to 2.20m	1	2.20	(1.00 + 1.15)/2	0.15	0.35	
	Ch:2.20m to 17.20m	1	15.00	(1.15 + 1.40)/2	0.15	2.87	
	Ch:17.20m to 32.20m	1	15.00	(1.40 + 1.30)/2	0.15	3.04	
	Ch:32.20m to 47.20m	1	15.00	(1.30 + 1.40)/2	0.15	3.04	
	Ch:47.20m to 62.20m	1	15.00	(1.40 + 1.30)/2	0.15	3.04	
	Ch:62.20m to 77.20m	1	15.00	(1.30 + 1.50)/2	0.15	3.15	
	Ch:77.20m to 92.20m	1	15.00	(1.50 + 1.40)/2	0.15	3.26	
	Ch:92.20m to 107.20m	1	15.00	(1.40 + 1.30)/2	0.15	3.04	
	Ch:107.20m to 122.20m	1	15.00	(1.30 + 1.20)/2	0.15	2.81	
	Ch:122.20m to 137.20m	1	15.00	(1.20 + 1.40)/2	0.15	2.93	
	Ch:137.20m to 152.20m	1	15.00	(1.40 + 1.50)/2	0.15	3.26	
	Ch:152.20m to 167.20m	1	15.00	(1.50 + 1.60)/2	0.15	3.49	
	Ch:167.20m to 182.20m	1	15.00	(1.60 + 1.30)/2	0.15	3.26	
	Ch:182.20m to 197.20m	1	15.00	(1.30 + 1.20)/2	0.15	2.81	
	Ch:197.20m to 212.20m	1	15.00	(1.20 + 1.80)/2	0.15	3.38	

Contractor

Asst.Engineer

Asst.Exec.Engineer

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:212.20m to 227.20m	1	15.00	(1.80 + 1.60) / 2	0.15	3.83	
	Ch:227.20m to 242.20m	1	15.00	(1.60 + 1.70) / 2	0.15	3.71	
	Ch:242.20m to 257.20m	1	15.00	(1.70 + 1.60) / 2	0.15	3.71	
	Ch:257.20m to 272.20m	1	15.00	(1.60 + 1.80) / 2	0.15	3.83	
	Ch:272.20m to 287.20m	1	15.00	(1.80 + 2.20) / 2	0.15	4.50	
	Ch:287.20m to 302.20m	1	15.00	(2.20 + 1.40) / 2	0.15	4.05	
	Ch:302.20m to 317.20m	1	15.00	(1.40 + 1.50) / 2	0.15	3.26	
	Ch:317.20m to 332.20m	1	15.00	(1.50 + 1.40) / 2	0.15	3.26	
	Ch:332.20m to 347.20m	1	15.00	(1.40 + 1.50) / 2	0.15	3.26	
	Ch:347.20m to 362.20m	1	15.00	(1.50 + 1.60) / 2	0.15	3.49	
	Ch:362.20m to 377.20m	1	15.00	(1.60 + 2.00) / 2	0.15	4.05	
	Ch:377.20m to 392.20m	1	15.00	(2.00 + 1.30) / 2	0.15	3.71	
	Ch:392.20m to 407.20m	1	15.00	(1.30 + 1.40) / 2	0.15	3.04	
	Ch:407.20m to 422.20m	1	15.00	(1.40 + 1.30) / 2	0.15	3.04	
	Ch:422.20m to 437.20m	1	15.00	(1.30 + 1.20) / 2	0.15	2.81	
	Ch:437.20m to 444.80m	1	7.60	(1.20 + 1.00) / 2	0.15	1.25	
				Present Qty		**98.53**	**Cum**
				Upto 125%		**90.00**	**Cum**
				Above 125%		**8.53**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

ame of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

Detailed Measurements Date - 22-04-2024

easurement Recorded On:

em No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates						
	Ward No-04						
	Concrete For Road Cut Portion						
	LBS Nagara Road						
	From Allasandra Main Rd						
	Ch:0.00m to 2.20m	1	2.20	(1.00 + 1.15)/2	0.15	0.35	
	Ch:2.20m to 17.20m	1	15.00	(1.15 + 1.40)/2	0.15	2.87	
	Ch:17.20m to 32.20m	1	15.00	(1.40 + 1.70)/2	0.15	3.49	
	Ch:32.20m to 47.20m	1	15.00	(1.70 + 1.40)/2	0.15	3.49	
	Ch:47.20m to 62.20m	1	15.00	(1.40 + 1.30)/2	0.15	3.04	
	Ch:62.20m to 77.20m	1	15.00	(1.30 + 1.50)/2	0.15	3.15	
	Ch:77.20m to 92.20m	1	15.00	(1.50 + 2.00)/2	0.15	3.94	
	Ch:92.20m to 107.20m	1	15.00	(2.00 + 3.00)/2	0.15	5.63	
	Ch:107.20m to 122.20m	1	15.00	(3.00 + 2.00)/2	0.15	5.63	
	Ch:122.20m to 137.20m	1	15.00	(2.00 + 1.40)/2	0.15	3.83	
	Ch:137.20m to 152.20m	1	15.00	(1.40 + 1.50)/2	0.15	3.26	
	Ch:152.20m to 167.20m	1	15.00	(1.50 + 1.60)/2	0.15	3.49	
	Ch:167.20m to 182.20m	1	15.00	(1.60 + 1.50)/2	0.15	3.49	
	Ch:182.20m to 197.20m	1	15.00	(1.50 + 2.00)/2	0.15	3.94	

Contractor

Asst.Engineer

Asst.Exec.Engineer

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:197.20m to 212.20m	1	15.00	(2.00 + 1.80) / 2	0.15	4.28	
	Ch:212.20m to 227.20m	1	15.00	(1.80 + 2.00) / 2	0.15	4.28	
	Ch:227.20m to 242.20m	1	15.00	(2.00 + 1.70) / 2	0.15	4.16	
	Ch:242.20m to 257.20m	1	15.00	(1.70 + 1.60) / 2	0.15	3.71	
	Ch:257.20m to 272.20m	1	15.00	(1.60 + 2.50) / 2	0.15	4.61	
	Ch:272.20m to 287.20m	1	15.00	(2.50 + 2.20) / 2	0.15	5.29	
	Ch:287.20m to 302.20m	1	15.00	(2.20 + 2.00) / 2	0.15	4.73	
	Ch:302.20m to 317.20m	1	15.00	(2.00 + 1.50) / 2	0.15	3.94	
	Ch:317.20m to 332.20m	1	15.00	(1.50 + 3.00) / 2	0.15	5.06	
	Ch:332.20m to 347.20m	1	15.00	(3.00 + 1.50) / 2	0.15	5.06	
	Ch:347.20m to 362.20m	1	15.00	(1.50 + 3.00) / 2	0.15	5.06	
	Ch:362.20m to 377.20m	1	15.00	(3.00 + 2.00) / 2	0.15	5.63	
	Ch:377.20m to 392.20m	1	15.00	(2.00 + 2.00) / 2	0.15	4.50	
	Ch:392.20m to 407.20m	1	15.00	(2.00 + 2.40) / 2	0.15	4.95	
	Ch:407.20m to 422.20m	1	15.00	(2.40 + 1.30) / 2	0.15	4.16	
	Ch:422.20m to 437.20m	1	15.00	(1.30 + 1.30) / 2	0.15	2.93	
	Ch:437.20m to 444.80m	1	7.60	(1.30 + 1.30) / 2	0.15	1.48	
	Concrete For House Hold Connection						
	LBS Nagara Road						
	From Allasandra Main Rd						
	Ch:2.20m to 17.20m	1	0.70	(4.60 + 4.10) / 2	0.15	0.46	
	Ch:17.20m to 32.20m	1	0.70	(4.10 + 4.35) / 2	0.15	0.44	
	Ch:32.20m to 47.20m	1	0.75	(4.35 + 4.65) / 2	0.15	0.51	

Contractor

Asst.Engineer

Asst.Exec.Engineer

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:47.20m to 62.20m	1	0.90	(4.65 + 4.70) / 2	0.15	0.63	
	Ch:62.20m to 77.20m	1	1.00	(4.70 + 4.90) / 2	0.15	0.72	
	Ch:77.20m to 92.20m	1	1.30	(4.90 + 4.95) / 2	0.15	0.96	
	Ch:92.20m to 107.20m	2	0.75	(4.95 + 4.40) / 2	0.15	1.05	
	Ch:107.20m to 122.20m	2	0.75	(4.40 + 4.35) / 2	0.15	0.98	
	Ch:122.20m to 137.20m	1	0.75	(4.35 + 4.85) / 2	0.15	0.52	
	Ch:137.20m to 152.20m	1	0.75	(4.85 + 3.80) / 2	0.15	0.49	
	Ch:152.20m to 167.20m	1	0.75	(3.80 + 3.90) / 2	0.15	0.43	
	Ch:167.20m to 182.20m	1	0.75	(3.90 + 4.10) / 2	0.15	0.45	
	Ch:182.20m to 197.20m	1	0.75	(4.10 + 3.80) / 2	0.15	0.44	
	Ch:197.20m to 212.20m	1	0.75	(3.80 + 4.25) / 2	0.15	0.45	
	Ch:212.20m to 227.20m	1	0.75	(4.25 + 4.15) / 2	0.15	0.47	
	Ch:227.20m to 242.20m	1	0.75	(4.15 + 3.90) / 2	0.15	0.45	
	Ch:242.20m to 257.20m	1	0.80	(3.90 + 3.40) / 2	0.15	0.44	
	Ch:257.20m to 272.20m	1	0.75	(3.40 + 3.65) / 2	0.15	0.40	
	Ch:272.20m to 287.20m	1	0.75	(3.65 + 4.05) / 2	0.15	0.43	
	Ch:287.20m to 302.20m	1	0.75	(4.05 + 3.50) / 2	0.15	0.42	
	Ch:302.20m to 317.20m	1	0.75	(3.50 + 3.60) / 2	0.15	0.40	
	Ch:317.20m to 332.20m	1	0.75	(3.60 + 3.10) / 2	0.15	0.38	
	Ch:332.20m to 347.20m	1	0.75	(3.10 + 3.35) / 2	0.15	0.36	
	Ch:347.20m to 362.20m	1	0.75	(3.35 + 3.40) / 2	0.15	0.38	
	Ch:362.20m to 377.20m	1	0.65	(3.40 + 3.00) / 2	0.15	0.31	

Contractor

Asst.Engineer

Asst.Exec.Engineer

m	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
	Ch:377.20m to 392.20m	1	0.65	(3.00 + 3.10) / 2	0.15	0.30	
	Ch:392.20m to 407.20m	1	0.65	(3.10 + 2.90) / 2	0.15	0.29	
	Ch:407.20m to 422.20m	1	0.65	(2.90 + 3.20) / 2	0.15	0.30	
	Ch:422.20m to 437.20m	1	0.65	(3.20 + 3.40) / 2	0.15	0.32	
	Ch:437.20m to 444.80m	1	0.65	(3.40 + 3.30) / 2	0.15	0.33	
					Present Qty	**137.92**	**Cum**
					Upto 125%	**99.08**	**Cum**
					Above 125%	**38.84**	**Cum**

Contractor

Asst.Engineer

Asst.Exec.Engineer

me of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

Detailed Measurements Date:- 14-03-2024

asurement Recorded On:

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km						
	From item no. 01		10.80	1.28		13.82	
					Present Qty	**13.82**	**T.km**

Contractor

Asst.Engineer

Asst.Exec.Engineer

Name of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No.04'

Detailed Measurements

Item No	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
1	Earth work excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work.Loading and Unloading of Stone Boulder/Stone aggregates/ Sand/Kankar/Moorum. (Tipper 5.5 m3)								
	Vide Premeasurement page no. 01					10.80			
					Present Qty	**10.80**	**Sqm**	**427.02**	**4611.82**
2	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density								
	Vide Premeasurement page no. 02 to 03					98.53			
					Present Qty	**98.53**	**Cum**		
					Upto 125%	**90.00**	**Cum**	**3667.59**	**330083.10**
					Above 125%	**8.53**	**Cum**	**3667.59**	**31275.37**
3	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Mix 1:3:6 (M10) Using 40 mm nominal size graded crushed coarse aggregates								
	Vide Premeasurement page no. 04 to 07					137.92			
					Present Qty	**137.92**	**Cum**		
					Upto 125%	**99.08**	**Cum**	**6783.56**	**672081.21**
					Above 125%	**38.84**	**Cum**	**6783.56**	**263478.98**
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km								
	Vide Premeasurement page no. 08					13.82			
					Present Qty	**13.82**	**T.km**	**90.61**	**1252.59**

Contractor

Asst. Engineer

Asst. Exec. Engineer

e of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

Detailed Measurements Date:- 03-06-2024

urement Recorded On:

m o	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
4	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 M30 (Grade), coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the								
	Ward No-04								
	CC Road								
	LBS Nagara Road								
	From Allasandra Main Rd								
	Ch:0.00m to 2.20m	1	2.20	(6.60 + 6.10)/2		0.15	2.10		
	Ch:2.20m to 17.20m	1	15.00	(4.60 + 4.10)/2		0.15	9.79		
	Ch:17.20m to 32.20m	1	15.00	(4.10 + 4.35)/2		0.15	9.51		
	Ch:32.20m to 47.20m	1	15.00	(4.35 + 4.65)/2		0.15	10.13		
	Ch:47.20m to 62.20m	1	15.00	(4.65 + 4.70)/2		0.15	10.52		
	Ch:62.20m to 77.20m	1	15.00	(4.70 + 4.90)/2		0.15	10.80		
	Ch:77.20m to 92.20m	1	15.00	(4.90 + 4.95)/2		0.15	11.08		
	Ch:92.20m to 107.20m	1	15.00	(4.95 + 4.40)/2		0.15	10.52		
	Ch:107.20m to 122.20m	1	15.00	(4.40 + 4.35)/2		0.15	9.84		
	Ch:122.20m to 137.20m	1	15.00	(4.35 + 4.85)/2		0.15	10.35		
	Ch:137.20m to 152.20m	1	15.00	(4.85 + 3.80)/2		0.15	9.73		
	Ch:152.20m to 167.20m	1	15.00	(3.80 + 3.90)/2		0.15	8.66		
	Ch:167.20m to 182.20m	1	15.00	(3.90 + 4.10)/2		0.15	9.00		

Executive Engineer
Yelahanka Division
B.B.M.P, Bangalore-64
21/06/2024

Contractor

Asst. Engineer

Asst. Exec. Engineer

n	Discription of Item	No	Length	Breadth	Depth	Qty	Unit	Rate	Amount
	Ch:182.20m to 197.20m	1	15.00	4.10 + 3.80 / 2	0.15	8.89			
	Ch:197.20m to 212.20m	1	15.00	3.80 + 4.25 / 2	0.15	9.06			
	Ch:212.20m to 227.20m	1	15.00	4.25 + 4.15 / 2	0.15	9.45			
	Ch:227.20m to 242.20m	1	15.00	4.15 + 3.90 / 2	0.15	9.06			
	Ch:242.20m to 257.20m	1	15.00	3.90 + 3.40 / 2	0.15	8.21			
	Ch:257.20m to 272.20m	1	15.00	3.40 + 3.65 / 2	0.15	7.93			
	Ch:272.20m to 287.20m	1	15.00	3.65 + 4.05 / 2	0.15	8.66			
	Ch:287.20m to 302.20m	1	15.00	4.05 + 3.50 / 2	0.15	8.49			
	Ch:302.20m to 317.20m	1	15.00	3.50 + 3.60 / 2	0.15	7.99			
	Ch:317.20m to 332.20m	1	15.00	3.60 + 3.10 / 2	0.15	7.54			
	Ch:332.20m to 347.20m	1	15.00	3.10 + 3.35 / 2	0.15	7.26			
	Ch:347.20m to 362.20m	1	15.00	3.35 + 3.40 / 2	0.15	7.59			
	Ch:362.20m to 377.20m	1	15.00	3.40 + 3.00 / 2	0.15	7.20			
	Ch:377.20m to 392.20m	1	15.00	3.00 + 3.10 / 2	0.15	6.86			
	Ch:392.20m to 407.20m	1	15.00	3.10 + 2.90 / 2	0.15	6.75			
	Ch:407.20m to 422.20m	1	15.00	2.90 + 3.20 / 2	0.15	6.86			
	Ch:422.20m to 437.20m	1	15.00	3.20 + 3.40 / 2	0.15	7.43			
	Ch:437.20m to 444.80m	1	7.60	3.40 + 3.30 / 2	0.15	3.82			
	deduct	-1	0.90	0.80 + 0.80 / 2	0.15	-0.11			
	Approaches	1	1.20	1.40 + 1.40 / 2	0.15	0.25			
				Present Qty		**261.21**	**Cum**	**7650.05**	**1998258.09**

21/06/2024

Executive Engineer
Yelahanka Division,
B.B.M.P, Bangalore-64

Contractor

Asst. Engineer

Asst. Exec. Engineer,

Name of Work-"Restoration of BWWSSB Road Cutting Portion in LBS Nagara Census Block No.130/1 And 130/2 And 131/2 In Yelahanka New Town Ward No-04'

Detailed Measurements Date:- 04-06-2024

Measurement Recorded On:

Item No	Discription of Item	No	Length	A.Breadth	Depth	Qty	Unit	Rate	Amount
7	Providing and fixing precast reinforced cement concrete covering slabs of 23Cm thick made of M25 with OPC cement,@340kgs/cum with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.								-
	Missing Culvert Preacast Slab								
		4	0.60	1.20		2.88			
					Present Qty	**2.88**	**Sqm**	**5186.60**	**14937.41**
								SUB TOTAL	**3315978.56**
								GST 18%	**596876.14**
								GRAND TOTAL	**3912854.71**

Contractor

Asst. Engineer

Asst. Exec. Engineer